

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date: 5/3/96 UWA Mount No. 96-8 Whose sample? S. Brown Operator(s) McW + SB + IF

Indicate any change to the following:		196	204	bkg	206	207	208	238	248	254
Precambrian	Count time (secs):	2	10	10	10	30	10	5	5	2
	Delay time (secs):	7	3	1	2	1	1	3	2	2
Phanerozoic	Count time (secs):	2	10	10	10	10	10	5	5	2
	Delay time (secs):	7	3	1	2	1	1	3	2	2

expected 196-204 = 8.170 amu expected 204-bkg = 0.040 amu Dead-time = 32 nanosecs
 actual 196-204 = 8.167 actual 204-bkg = 0.045 expected resolution = >4200
 Primary = 2.6 nA PESABM = 40 pA actual resolution = 4780
 expected Primary : PESABM = 50:1 actual Primary : PESABM = 65

Comments: Raster : 2 mins @ 120 μ, changed to 3 minutes @ 120 μ.
 Samples Scans = 6
 A = E7
 B = E65 - high 204
 C = E68

Rejection over-ride	Sample/Std ID	Time - printout	UO/U	196 cps (K)	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	std. 2-1	11:21	6.07	13.5	1348	220	-0.6	.01	572 ± 1	598 ± 21	208
	std. 2-2	11:41	6.41	14.0	1485	220	-0.1	-	572 ± 1	651 ± 36	-
	B. 1-1				no data						
	std. 2-3	13:08	6.02	14.8	1463	220	1.5	.02	572 ± 1	557 ± 20	208
	B. 1-1	13:30	6.70	11.5	5.1K	182	862	18.5	1660 ± 6	2476 ± 35	204
	std. 2-4	13:49	5.94	15.9	1531	220.5	0.1	.005	579 ± 1	-	208
	B. 2-1	14:09	5.99	16.5	1786	43	0.3	.02	2710 ± 12	2671 ± 9	204 *
	B. 3-1	14:40	6.47	17.0	5.0K	95	484	13.8	2337 ± 8	2599 ± 27	204
	B. 4-1	14:58	5.92	19.8	2.7K	74	147	6.72	2045 ± 8	2693 ± 22	204
	std. 2-5	15:17	6.08	17.1	1710	212	-0.1	-	581 ± 1	575 ± 17	-
	B. 5-1	15:37	7.42	11.3	7.2K	107	1065	21.8	2646 ± 10	2358 ± 37	204

COMPUTER LOCKED-UP → RESTART

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps K	206 cps	U ppm	204Pb ppb	f206 %	Age ±1σ (Ma) 206/238	207/206	Corr.
	B.6-1	15:57	5.85	17.0	1129	26	1.0	.09	2917±18	2821±11	204
	B.7-1	16:22	6.10	17.9	2.4K	58	61.2	3.11	2378±9	2670±17	204
	B.8-1										
	std.2-6	16:53	6.19	17.0	1714	204	1.0	.01	569±1	605±18	208
	B.8-1	17:13	6.05	17.2	164	3.5	0.0	-	2814±43	2763±28	-
	B.9-1	17:32	6.93	14.0	45K	169	417.5	13.7	1268±4	2502±30	204
	B.10-1	18:00	5.83	18.0	1056	26.9	25.5	2.62	2561±15	2594±26	204
	B.11-1	18:19	5.04	20.6	1395	66.4	87.0	4.37	2123±10	2704±26	204
	B.12-1										
	std.2-7	18:53	5.89	16.1	1580	228	-1.3	-	585±1	554±18	-
	B.12-1	19:22	6.07	16.1	2.7K	66.5	35.5	1.47	2569±9	2647±12	204
	B.13-1										
	C.1-1	19:49	5.91	16.0	1816	47.6	2.8	0.16	2698±11	2682±10	204
	C.2-1	20:09	6.31	16.2	1969	41.5	101.1	6.4	2541±13	2693±26	204
	C.3-1	20:28	6.19	15.5K	3874	89	0.8	0.02	2724±8	2662±6	204
	std.2-8	20:53	6.16	16.4	1687	208	0.8	.07	581±1	509±26	204
	C.4-1	21:12	6.23	16.9	2009	42.1	3.5	0.2	2694±11	2670±9	204
	C.5-1	21:46	5.91	17.8	1153	26.9	0.6	.06	2728±15	2673±12	204
	C.6-1	22:11	6.10	17.5	4594	99.9	0.3	-	2691±7	2676±6	204
	C.7-1	22:36	5.66	17.3	3658	99.8	1.9	.05	2760±8	2700±6	204
	std.2-9	23:05	6.12	17.5	1735	202.1	-0.2	-	588.6±1	561±17	-
	C.8-1	23:32	6.09	16.9	3209	72.0	1.7	0.06	2707±9	2669±7	204
	C.9-1	23:54	6.03	17.4	2682	66.5	38.0	1.6	2471±9	2675±13	204
	C.10-1	0:21	5.96	18.6	2998	66.2	4.5	0.2	2681±9	2647±8	204
	C.11-1	1:00	5.86	16.6	5579	141.1	0.1	-	2769±7	2660±5	204

not mastered.

Mount/sample No: 96-8Date: 5/3/96Page No: 3

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U	196 cps	206 cps	U ppm	204Pb ppb	f206 %	Age $\pm 1\sigma$ (Ma) 206/238 207/206		Corr.
	C. 12-1	1.22	6.60	14.2	2423	51.0	59.8	3.1	2606 \pm 11	2700 \pm 16	204
	Std 2-10	1.47	5.91	17.0	1605	219	0.4	.03	579 \pm 1	462 \pm 23	204
	Std 2-11	2.15	5.89	17.1	1573	216	0.5	0.04	580 \pm 1	591 \pm 28	204
	C. 13-1	2.35	6.37	14.9	1984	44.1	0.6	.04	2671 \pm 11	2677 \pm 9	204
	C. 14-1	3.00	5.89	16.5	2960	80	2.0	.07	2596 \pm 8	2670 \pm 7	204
	A. 1-1	3.41	5.45	17.2	6686	181	25.2	0.3	3127 \pm 7	2684 \pm 5	204
	A. 2-1	4.02	6.22	16.8	10.4K	216	6.2	.07	2745 \pm 5	2659 \pm 4	204
	Std. 2-12	4.26	5.79	17.1	1530	219	0.0	-	589 \pm 1	504 \pm 19	-
	A. 3-1	4.49	6.0	17.3	4272	106	18.4	0.5	2533 \pm 7	2650 \pm 7	204
	A. 4-1	5.13	5.78	18.0	4442	109	4.1	0.1	2737 \pm 7	2680 \pm 6	204
	A. 5-1	5.37	5.68	18.9	2650	67.1	78	3.0	2652 \pm 10	2670 \pm 16	204
	A. 6-1	6.00	5.77	16.7	6764	187	0.5	.01	2671 \pm 6	2667 \pm 5	204
	Std. 2-13	6.24	5.87	17.5	1602	219	-0.8	-	575 \pm 1	591 \pm 18	-
	A. 7-1	6.49	5.91	16.5	4980	129	1.8	0.04	2654 \pm 7	2703 \pm 5	204
	A. 8-1	7.12	5.88	17.7	10.1K	252	24.9	0.3	2626 \pm 5	2660 \pm 4	204
	A. 9-1	7.33	6.12	16.9	8193	185	0.7	0.01	2657 \pm 5	2691 \pm 4	204
	A. 10-1	8.23	6.11	16.5	8771	196	3.9	0.05	2735 \pm 5	2695 \pm 4	204
	Std. 2-14	8.46	5.87	17.2	1622	222	0.1	.01	588	561	204
	A. 11-1	9.10	5.97	17.3	2510	60	4.9	0.2	2681 \pm 10	2705 \pm 8	204
	A. 12-1	9:35	6.08	17.0	7829	182	27.0	0.4	2619 \pm 5	2634 \pm 5	204
	A. 13-1	9:55	5.91	16.1	8591	239	8.9	0.1	2585 \pm 5	2630 \pm 4	204
	A. 14-1	10:15	6.45	16.7	10K	223	19.0	0.2	2646 \pm 5	2666 \pm 4	204
	A. 15-1	10:38	6.08	16.4	10K	239	1.0	.01	2679 \pm 5	2691 \pm 4	204
	sl 2-15	10:57	5.94	17.0	1636	223	-ve	-	574	645	-

Primary beam
current stepped
down throughout
analysis.